Claims

1. An unauthorized apparatus detection device for detecting an unauthorized apparatus produced by copying, comprising:

5

10

15

20

a distribution unit operable to store a first verification value in correspondence with a verification apparatus identifier, generate a second verification value that differs from the first verification value, store the second verification value in place of the first verification value, and distribute the second verification value to an apparatus that is storing the verification apparatus identifier;

an acquiring unit operable to acquire from a portable medium a target apparatus identifier and a verification value that have been written to the portable medium by a detection target apparatus;

a judging unit operable, if the target apparatus identifier matches the verification apparatus identifier, to judge whether or not the acquired verification value matches the second verification value; and

a registering unit operable, if the judging unit judges negatively, to register the target apparatus identifier on an unauthorized apparatus list.

- 2. The unauthorized apparatus detection device of Claim 1, wherein
- 25 if the judging unit judges affirmatively, the distribution unit is further operable to generate a third verification value that differs from the second verification value, store the third verification value in place of the second verification value, and

distribute the third verification value to the detection target apparatus.

- 3. The unauthorized apparatus detection device of Claim 1, further comprising:
 - a title key storage unit operable to store a title key for decrypting encrypted content, wherein
- if the judging unit judges affirmatively, the distribution unit further distributes the title key to the detection target apparatus.
 - 4. The unauthorized apparatus detection device of Claim 2, the detection target apparatus storing therein a private key, the unauthorized apparatus detection device further comprising:
 - a title key storage unit operable to store a title key for decrypting encoded content;

15

25

- a duplicate key storage unit operable to store, in correspondence with the verification apparatus identifier, a duplicate key that is a copy of the private key; and
- an encrypted title key generation unit operable to encrypt the title key using the duplicate key to generate an encrypted title key, wherein
 - if the judging unit judges affirmatively, the distribution unit further distributes the encrypted title key to the detection target apparatus.
 - 5. The unauthorized apparatus detection device of Claim 1, further comprising:

a counting unit operable to count a number of affirmative judgments by the judging unit; and

a count judging unit operable to judge whether the total number of affirmative judgments exceeds a predetermined number, wherein

if the total number exceeds the predetermined number, the distribution unit is further operable to generate a third verification value that differs from the second verification value, replace the first verification value with the third verification value, and distribute the second verification value to the detection target apparatus.

6. The unauthorized apparatus detection device of Claim 1, further comprising:

a period measuring unit operable to measure a period since a last verification value distribution by the distribution unit; and

a period judging unit operable to judge whether the total period exceeds a predetermined period, wherein

if the total period exceeds the predetermined period, the distribution unit is further operable to generate a third verification value that differs from the second verification value, replace the second verification value with the third verification value, and distribute the third verification value to the detection target apparatus.

25

20

5

10

15

7. The unauthorized apparatus detection device of Claim 1, wherein

the distribution unit is operable to generate a random number

to use as each verification value.

5

10

15

20

25

8. A content playback device for performing playback of content,
comprising:

a storage unit operable to store, in correspondence with an apparatus identifier, a first verification value generated by an unauthorized apparatus detection device for detecting an unauthorized apparatus produced by copying;

a notification unit operable to notify the unauthorized apparatus detection device of the apparatus identifier and first verification value;

an acquiring unit operable to acquire from a portable medium an apparatus identifier and a second verification value that have been written, in response to the notification, on the portable medium by the unauthorized apparatus detection device, the second verification value having been generated by the unauthorized apparatus detection device; and

an update unit operable, if the acquired apparatus identifier matches the apparatus identifier stored in the storage unit, to replace the first verification value with the second verification value.

9. An unauthorized apparatus detection system for detecting an unauthorized apparatus produced by copying, including an unauthorized apparatus detection device and a plurality of detection target apparatuses,

each detection target apparatus comprising:

a storage unit operable to store a first verification value in correspondence with a target apparatus identifier;

a notification unit operable to notify the unauthorized apparatus detection device of the target apparatus identifier and the first verification value;

an update information acquiring unit operable to acquire, from the unauthorized apparatus detection device, a verification apparatus identifier and a second verification value that is generated by the unauthorized apparatus detection device; and

5

10

15

20

25

an update unit operable, if the verification apparatus identifier matches the target apparatus identifier, to replace the first verification value with the second verification value, and the unauthorized apparatus detection device comprising:

a distribution unit operable to generate a second verification value that differs from a first verification value stored in correspondence with a verification apparatus identifier, store the second verification value in correspondence with the verification apparatus identifier in place of the first verification value, and distribute the verification apparatus identifier and the second verification value to an apparatus that is storing the verification apparatus identifier;

an acquiring unit operable to acquire a target apparatus identifier and a verification value from any one of the detection target apparatuses;

a judging unit operable, if the received target apparatus identifier matches the verification apparatus identifier, to judge whether or not the acquired verification value matches the second verification value, and

a registering unit operable, if the judging unit judges negatively, to register the target apparatus identifier on an

unauthorized apparatus list.

5

10

20

25

10. The unauthorized apparatus detection system of Claim 9, wherein

the notification unit is further operable to write the target apparatus identifier and the first verification value to a portable medium, and

the acquiring unit is further operable to read the target apparatus identifier and the verification value from the portable medium via an information collecting device.

11. The unauthorized apparatus detection system of Claim 10, wherein

the information collecting device includes:

a reading unit operable to read from the portable medium the target apparatus identifier and the verification value that are written in the portable medium; and

a transmission unit operable to transmit the target apparatus identifier and the verification value, and

the acquiring unit acquires the target apparatus identifier and the verification value from the information collecting device.

12. An information collecting device for transmitting, to an unauthorized apparatus detection device for detecting unauthorized apparatus produced by copying, information stored by a detection target apparatus that is a target of the detection,

the detection target apparatus storing a target apparatus identifier and a verification value generated by the unauthorized

apparatus detection device, and

5

10

15

25

the unauthorized apparatus detection device generating the verification value, storing the generated verification value in correspondence with a verification apparatus identifier, acquiring a target apparatus identifier and a verification value, if the target apparatus identifier matches the verification apparatus identifier, judging whether the stored verification value matches the acquired verification value, and if judging negatively, registering the target apparatus identifier on an unauthorized apparatus list,

the information collecting device comprising:

a reading unit operable to read from the portable medium the target apparatus identifier and the verification value that have been written to the portable medium by the detection target apparatus; and

a transmission unit operable to transmit the read target apparatus identifier and the read verification value to the unauthorized apparatus detection device.

13. An unauthorized apparatus detection method for detecting20 an unauthorized apparatus produced by copying, comprising:

a distribution step of storing a first verification value in correspondence with a verification apparatus identifier, generating a second verification value that differs from the first verification value, storing the second verification value in place of the first verification value, and distributing the second verification value to an apparatus that is storing the verification apparatus identifier;

an acquiring step of acquiring from a portable medium a target apparatus identifier and a verification value that have been written

to the portable medium by a detection target apparatus;

5

15

20

25

a judging step of, if the target apparatus identifier matches the verification apparatus identifier, judging whether or not the acquired verification value matches the second verification value; and

a registering step of, if the judging unit judges negatively, registering the target apparatus identifier on an unauthorized apparatus list.

14. A computer program used in a storage unit-equipped unauthorized apparatus detection unit for detecting an unauthorized apparatus produced by copying, comprising:

a distribution step of storing a first verification value in correspondence with a verification apparatus identifier, generating a second verification value that differs from the first verification value, storing the second verification value in place of the first verification value, and distributing the second verification value to an apparatus that is storing the verification apparatus identifier;

an acquiring step of acquiring from a portable medium a target apparatus identifier and a verification value that have been written to the portable medium by a detection target apparatus;

a judging step of, if the target apparatus identifier matches the verification apparatus identifier, judging whether or not the acquired verification value matches the second verification value; and

a registering step of, if the judging unit judges negatively, registering the target apparatus identifier on an unauthorized apparatus list.

- 15. The computer program of Claim 14, wherein the computer program is recorded on a computer-readable 5 recording medium.
 - 16. An apparatus information update method used by a content playback device for performing playback of content,

the content playback device including a storage unit operable to store, in correspondence with an apparatus identifier, a first verification value generated by an unauthorized apparatus detection device for detecting an unauthorized apparatus produced by copying;

10

15

20

25

and the apparatus information update method comprising:

a notification step of notifying the unauthorized apparatus detection device of the apparatus identifier and first verification value;

an acquiring step of acquiring from a portable medium an apparatus identifier and a second verification value that have been written, in response to the notification, on the portable medium by the unauthorized apparatus detection device, the second verification value having been generated by the unauthorized apparatus detection device; and

an update step of, if the acquired apparatus identifier matches the apparatus identifier stored in the storage unit, replacing the first verification value with the second verification value.

17. A computer program used by a content playback device for performing playback of content,

the content playback device including a storage unit operable to store, in correspondence with an apparatus identifier, a first verification value generated by an unauthorized apparatus detection device for detecting an unauthorized apparatus produced by copying;

and the computer program comprising:

5

10

15

a notification step of notifying the unauthorized apparatus detection device of the apparatus identifier and first verification value;

an acquiring step of acquiring from a portable medium an apparatus identifier and a second verification value that have been written, in response to the notification, on the portable medium by the unauthorized apparatus detection device, the second verification value having been generated by the unauthorized apparatus detection device; and

an update step of, if the acquired apparatus identifier matches the apparatus identifier stored in the storage unit, replacing the first verification value with the second verification value.

- 18. The computer program of Claim 17, wherein
- 20 the computer program is recorded on a computer-readable recording medium.
 - 19. An integrated circuit used content playback device for performing playback of content, comprising:
- a storage unit operable to store, in correspondence with an apparatus identifier, a first verification value generated by an unauthorized apparatus detection device for detecting an unauthorized apparatus produced by copying;

a notification unit operable to notify the unauthorized apparatus detection device of the apparatus identifier and first verification value;

an acquiring unit operable to acquire from a portable medium an apparatus identifier and a second verification value that have been written, in response to the notification, on the portable medium by the unauthorized apparatus detection device, the second verification value having been generated by the unauthorized apparatus detection device; and

5

an update unit operable, if the acquired apparatus identifier matches the apparatus identifier stored in the storage unit, to replace the first verification value with the second verification value.